## NF136/01

## We claim

- A process for identification of insulin producing β-cells proliferating factor from the perivitalline fluid of fertilized eggs of horseshoe crab that facilitates the proliferation of AR42J cells from rat origin.
- 2. A process as claimed in claim 1 wherein the process comprises collecting peri-vitalline fluid from the fertilized eggs of the Indian horseshoe crab.
- 3. A process as claimed in claim 1 wherein the peri-vitalline fluid is collected aseptically, aliquated and stored at -20° C.
- 4. A process as claimed in claim 1 wherein the AR42J cell line (rat ascinar cells) obtained from American Type Culture Collection (Rockville MD, USA) was grown in Dulbeco's modified minimum essential medium supplemented with 10% FCS.
- 5. A process as claimed in claim 1 wherein the cells were maintained in NUNC six-well dishes (NUNCLON, Denmark).
- 6. A process as claimed in claim 1 wherein the a sub culture is done every 4<sup>th</sup> day of seeding of 1 x 10<sup>5</sup> cells and the cultures were incubated at 37° C.
- 7. A process as claimed in claim 1 wherein the concentration dependent proliferation was observed in presence of peri-vitalline fluid.